CENTRAL INTELLIGENCE AGENCY INFORMATION REPORT

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COUNTRY	East Germany	REPORT	
SUBJECT	1. Production of VEB	DATE DISTR.	ll February 1955
	Turbinenfabrik Dresden 2. Status of Turbines in Other Enterprises	NO. OF PAGES	5 25X1
DATE OF INFO.	TOTAL MITOLOGICAL	REQUIREMENT	
PLACE ACQUIRED		This is UNEVALUATED Ir	nformation
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	THE SOURCE EVALUATIONS IN THI THE APPRAISAL OF CONT (FOR KEY SEE F	ENT IS TENTATIVE.	

- 1 VEB Turbinenfabrik Dresden, located at N 15, Industriegelaende, was formerly the plant of Brueckner, Kanis and Company. The present firm has a staff of 1,300 employees. It makes turbines up to a capacity of 5 MW.
- 2. Subcentractors

Fumpen- und Geblaesewerk Leipzig (formerly Jaeger)
Elbowerk Rosslau (formerly Sachsenwerk)
Maschinenfabrik Koonigsee (formerly Stock)
Fumpenwerk Halle
Fumpenwerk Aschersleben
Poldina Foundry , Czechoslovakia, supplies turbine blade steel.
Maxhuette, Unterwellenborn, supplies turbine blade steel.
Finow and Lauchhammer supply steel castings.
Groeditz and Riesa supply forgings.
Pulsnitz supplies condensors.

- 3. Production of Turbines for East German Enterprises by VEB Turbinenfabrik
 Dresden
 - a. Feeder Steam Turbines (Speisedampfturbinen)

Quantility	Lour	Price per Unit	Capacity	Consignee	
2	1954	500,000 DME	-	Kraftwerk Elbe, Vockerode	
\		For boiler feeders of weak in the housings, construction.		These machines proved too and to materials and	
4	1955	n	-	n	
3	1956	o of the confidenti	- 'AL	¹¹ 25X1	

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b. Condensation Bleeder Turbines (Entnahme-Kondensationsturbinen)

Quantity	Your	Price ro	y Unit	Canacity	<u>Censimee</u>
1.	1954	670,000-	-980,000 DME	3.2 M	Papierfabrik Morseburg
ï	1954	tr	11	tı	Fapiorfubrik Weissenborn
1	1954	11	11	**	Pepiorfabrik Golzern/Triptis
1	1954	11	11	Ħ	Papierfabrik Unterbreizbech
1	1954	n	· n	11	Zellstofiwerk Coswig
-	1954	Ħ	11	11	Reifenwerk Fuerstenwalde
1		11	r,	11	Schott, Jena
1	1954				

Most of the above turbines, though installed, could not be placed in service because the testing of the central system was not completed.

1 1954 - 2.6 Mi Kunstseidenwerk Schumrza

c. Three-cylinder Turbines (C 3 Machines)

2	1954		3 MW(each)	Kunstseidenwerk Schuerza
1	1954		3.2 NM	Fodofabrik Dernburg
3	1955	540,000 DME	rae	Sodafabrik Bernburg
1	JOSA.	39	2.6 M	Sodafabrik Stassfurt
3	1953	.: :	4 M	Kunstsoidonvork Pirna

In 1955 this fine is to receive from VEB Turbinenfabrik Dresden machines sufficient to raise power capacity by a further 7 MW.

d. Three-cylinder Invulse Turbines (Gegendruck-Maschinen C 3)

2	1954	600,000 DME	3 MW	Zuckerfabrik Delitzsch
1	1954	600,000 DM	3 MW	Zuckorfabrik Helmsdorf

o. Miscellancous Smaller Turbines

50-60 1954 12,000-280,000 DME Total Capacity Various smaller firms

f. Booster Turbines Produced on Sub-contract by Maschinenfabrik Koeniusee

6-8 920,000 DME

These are produced on orders from VEB Turbinenfabrik Dresden. They atilize the exhaust from steam engines (zur Abdampf-Verwertung der Dampfhaschinen). They are installed on freight ships of 3,000 tonnege, one turbine per ship. The whole order includes 30 turbines.

4. Production of Turbines for Export by VEB Turbinenfabrik Drosden

a. Communist China

2 turbines of 5 MW capacity were delivered to Communist China in September 1994 by air since the deadline had passed. They are to be installed in a sugar factory.

b. Himsery

2 feeder steam turbines, type K 5, priced at 80,000 DME each, were delivered

* Nachschalt-Turbinen

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to the Banida power plant (Kraftwerk), near Budapest. They are to be used for the steam boiler outfit which is to be supplied by Bergmann-Borsig.

c. Poland

155.4

4 turbines costing 500,000 DME each were delivered to destinations in Poland, 2 of these to Auschwitz, 2 to a sugar factory. The consignment consisted of 2 impulse turbines and 2 condensation bleeder turbines, and their capacity was 3 MW (2 turbines), 2.5 MW and 1 MW respectively.

d. Rumania

2 three-cylinder turbines with a capacity of 3 MW priced at 650,000 DME each, were delivered to a sugar factory.

e. Russia

120 feeder sterm turbines for boiler feeders and generators were delivered during 1954. The total shipment cost 5,500,000 DME. Capacities of individual items ranged from 80 to 2,500 horsepower, and prices ranged from 12,000 to 560,000 DME.

f. Western Countries

No exports.

5. Defective Motorials

The turbine shafts (Wellenlaeufer) received from the steel works at Groeditz and Magdoburg (Thaelmann-Work) are from 25 to 30 percent defective. The predecessor firm, brunckner, Kanis and Co., secured its supply of forged parts especially from the Bochumer Verein, and rejections amounted to 1 or 2 percent only. The VEB Turbinenfabrik Dresden possesses an electromagnetic testing apparatus, by which shrink-holes and other defects hay be detected. It is also equipped with a centrifuge for high-speed testing.

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6. Status of Turbines in Various Enterprises

a. Powor Plants

(1) Buna-Schkopen

In 1953, this firm received one Brown-Boveri turbine of 24 PW capacity.

(2) Calba

Power production at this enterprise is at a standstill owing to a demaged induced draught installation (Saugzug).

(3) Heiskraftwerk Dreaden

A. 32 MW turbine, imported from the "West,", was to damaged as it was being started.

(4) kraftwerk Elbe. Vockerode

This firm will receive an unspecified number of turbines from Rosslau, and, by 1956, 9 large turbines totalling 32,000,000 watts from Bergmann-Borsig.

(5) Kraftwerk Hirschfalde

This plant possesses at present a capacity of 139 MW. The machines which produced 30 MW of this amount were moved from Chemnitz several years ago. A new 50 MW turbine is to be installed.

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(6) Kraftwerk Leinzig/Kulkwitz

After a local overhauling two machines, one 25 NW and the ...other 16 MW, jammed. The responsible superintendent had attempted to change the oil during operation, with the result that the oil feed not only for the luirication but also for the cooling system had to be taken out. The superintendent committed suicide.

Oil filters with devices enabling machanical cleaning during operation are now manufactured by Schumann in Leipzig.

(7) Kraftwerk Zschornewitz

Capacity is expected to be raised within the near future by the installation of 4 turbines of 50 NW pach.

b. Other Plants

(1) Kunstseidenwerk Pirna

In 1953, this firm received a new Brown-Boveri turbine of 2 MW capacity.

(2) Kunstseidenwerk Schwarze

This firm possesses, in addition to the Presden turbines listed above, one AEG turbine of 4 NW capacity, and a Lungstroem turbine of 3 NW capacity. The 3 3 turbines have gear drives, in which pinion trouble has already developed. The reason for this is because the power installations at Schwarza are connected in parallel with the overland power lines (Ueberlandnetz) and, when lightning strikes, sudden overcharging or undercharging results. Recently an apparatus has been installed to cut the turbines out of the power network in such circumstances.

(3) Sodafabrik Bernburg

This firm has heretofore been equipped with only two old AEG turables (capacity 1 NW or 1.5 NW). and one

3 MW turbine from Goerlitz. They were obtained from potash mines. 25X1

These AEG turbines are now to be torn out and replaced by one new

4 MW machine and by the above
listed C 3 machines from Dresden. In the recently constructed

boiler-house, 8 boilers with about 80 tons steam capacity per hour at

40 atmospheres absolute pressure are to be installed. They will

replace the 14 locomotive boilers (of 12 atmospheres pressure) utilized
since the initiation of the factory.

(4) Sodafabrik Stassfurt Fred Oelssner

This firm possesses, in an old nower-house, 3 Brown-Boveri turbines with a total capacity of 5 MW In a newer power house, there is an older turbine of 800 KW capacity and the recently installed Dresden turbine listed above.

7	Orders for domestic consumption of equipment produced by VEB Turbinenfabrik
	Dresden included a monthly delivery of 80 locomotive searchlights (Beleucht-
	ungsmaschinen) at 460 DNF each.
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1. Comment: This turbine is called simply a Kondensations-Turbine

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